A.I.A. File No. 8-c

COMPLETE ARCHITECTURAL SPECIFICATION FOR CAST STONE

PREPARED AND ADOPTED BY

CAST STONE INSTITUTE

33-WEST GRAND AVE
CHICAGO ILLINOIS

APRIL-1930

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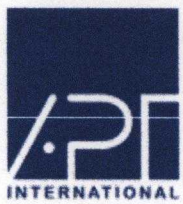

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Complete Architectural Specification for Cast Stone

General The work covered by this specification is subject to the provisions of the General Conditions of the Contract" (Fourth Edition, copyrighted 1925) issued by the American Institute of Architects and the Cast Stone Manufacturer and the Erecting Contractor shall be governed by all the requirements thereunder.

Work Included This specification covers all labor, materials and services incidental to and including the furnishing and erecting of all cast stone as indicated on the drawings and specified herein.

Division of Work The Manufacturer shall be responsible for all labor, material, equipment and services necessary for and incidental to providing all cast stone covered by this specification.

The Erecting Contractor shall unload, receipt for, store and erect all cast stone covered by this specification and shall prcvide and install all anchors for same.

Drawings and Details Scale and detail drawings will be furnished where necessary by the Architects and they shall be accurately followed in the execution of this work.

The Manufacturer shall prepare complete shop drawings and setting diagrams for all cast stone work, showing sizes, sections and dimensions of pieces, jointing, bonding, anchoring, and all other necessary details. Each piece of cast stone shall have a setting number.

Copies of all shop drawings shall be submitted to the Architects, one set to be approved by the Architects in writing thereon and returned to the Manufacturer before the manufacture of cast stone is started.

The General Contractor shall furnish to the Cast Stone Manufacturer all information necessary to enable the Cast Stone Manufacturer to properly check the cast stone with connecting structural work to insure that these shall be in perfect agreement.

Reglets, Rabbets, Slots, etc., as shown by the Architects' drawings shall be provided in cast stone to receive all flashing, sheet metal work, or other work which comes in conjunction with the cast stone.

Setting loops or Lewis holes shall be provided in the cast stone where necessary for hoisting purposes.

Kind and Finish

All cast stone used in this work shall be the product of a manufacturer having capacity and facilities for furnishing the quality, sizes and quantities of cast stone required without delaying the progress of the work and whose products have been previously used and exposed to the weather with satisfactory results.

All cast stone used in this work shall have a compressive strength of at least 5,000 lbs. per sq. in. and an absorption of not more than 7% nor less than 3% when tested in accordance with the American Concrete Institute tentative specification for cast stone (P-3-A-29T).

All cast stone used in this work shall be (Note: Designate which one of the following classes and finishes is desired, and also indicate the approximate color and texture or grain desired in the cast stone).

PLAIN CAST STONE,

SURFACED CAST STONE,
(Hand rubbed finish.
(Brushed finish.
(Acid washed finish.

CUT CAST STONE
(Machine rubbed finish.
(Bush Hammered finish.
(Machine tooled finish.
(Crandalled finish.
(Hand tooled finish.
(Sawed finish.

Each manufacturer bidding under this specification shall submit samples showing the quality and finish of the cast stone which he proposes to furnish. All cast stone used in this work shall conform in every particular to the sample as selected by the Architects.

Models and Carving

Clay or plaster models of all ornament shall be provided by the Manufacturer and shall be approved by the Architects either from photographs or by personal inspection before any work is executed therefrom.

Tests The Architects shall have the privilege of selecting pieces of cast stone at random for testing. Tests shall be made by a laboratory approved by both the Architects and the Manufacturer and shall be paid for by the Manufacturer. The Testing Laboratory shall submit copies of test results to both the Architects and the Manufacturer.

Handling and Storing at Site All cast stone when being removed from cars or trucks shall be handled throughout by competent workmen and by such methods as will guard against soiling, mutilation or chipping. The cast stone shall be stored at the building site, for whatever time, in such a manner that it rests entirely clear of the ground and be protected by proper means from damage to arrises and from contact with anything that would result in damage from accumulation of dirt, dust, grease or other staining or disfiguring elements. During extended periods of storage at the building site, the cast stone shall be covered with tarpaulins or stout non-staining paper. In no case shall the cast stone be stored under trees or other overhanging objects.

Setting Mortar All cast stone shall be set in mortar composed of one volume portland cement, one volume cold lime putty and five volumes sand. Lime putty shall be made from the best quality lump lime slaked with cold water, screened through a 3/16 inch mesh screen into a settling box, allowed to stand not less than one week and then mixed with sand and stacked to age. The correct amount of cement shall be thoroughly worked into the mixture in small batches just prior to its use for setting the cast stone.

Centering All wood centering required for the proper setting of cast stone shall be furnished and erected by the General Contractor.

Anchors All anchors used in setting this cast stone shall be wrought iron, zinc coated or dipped in asphaltum or red lead after fabrication. They shall be of sizes and shapes as indicated on the setting diagram and shall be furnished by the Erecting Contractor.

Setting The Erecting Contractor shall set the cast stone in accordance with the requirements of the drawings. All exposed surfaces of cast stone shall be cleaned and the mortar surfaces of each piece shall be sponged

with clean water just before setting. Each piece shall be set accurately, true to line, level and plumb by competent stone setters, with full flushed joints, all anchor holes being filled. The face of the cast stone shall be kept free from mortar at all times.

Pieces of cast stone in heavy projecting courses and other heavy projecting members shall be propped up until the anchoring has been built in and sufficient work is in place above to securely hold such members in position. Heavy blocks of cast stone shall not be set until the mortar in the joints below has thoroughly set. The use of pinch bars except on the backs of cast stone shall be prohibited. Each piece of cast stone, except where otherwise specified, shall rest on a full bed of mortar in sufficient amount to fill out to the edges of the piece on all sides. Each piece of cast stone shall be adjusted on its bed by striking with a wooden mallet or ram. Any piece which does not find its proper bed and accurate bearing shall be lifted and re-set on a new bed of mortar. All anchors and dowels as provided for shall be set in position as the courses are laid. All holes around anchors and dowels shall be entirely filled with setting mortar. Joints shall be raked out 3/4 inch deep on the face for pointing.

Only the end of lug sills shall be set in a full bed of mortar, balance of joint to be left open until pointed.

Grouting and Caulking

All cornices, copings and projecting belt courses and pieces forming gutters shall be set with the vertical joints dry. These joints shall be caulked on the exterior profile with oakum and shall then be filled to within 3/4 inch of the top with liquid grout composed of one volume portland cement and one volume of fine sand premixed at least one hour before being used and of as thick consistency as can be poured into the joints. After grout has thoroughly set the top joint shall be filled with lead wool caulked tightly against the edges and left slightly convex on top, or with an approved elastic caulking compound. Oakum shall be removed and the face joints pointed as hereinafter specified.

Protection

All cast stone work after setting shall be properly protected from damage by means of boards or other suitable covering, where necessary, until completion

of the work. The Erecting Contractor shall cooperate with the Carpentry Contractor who will furnish and erect the necessary protection for this work. The Erecting Contractor shall be responsible for all breakage and shall replace all broken pieces at his own expense.

Cleaning — When ready for pointing, the face of all cast stone shall be scrubbed with a fiber brush using soap powder and water and shall then be thoroughly rinsed with clean water. Any mortar splashed or dropped on the face of cast stone during setting shall be immediately washed off with a sponge and clean water.

Pointing — All face joints shall be brushed out clean to a depth of 3/4 inch, the joint dampened and then carefully pointed. Pointing mortar shall be composed of one volume of portland cement, one-quarter volume cold lime putty and three volumes of clean, sharp and well-graded sand, premixed in small batches and allowed to stand at least one hour before being used. The pointing mortar shall be packed solidly into all joints, completely filling them. The form of the joint shall be as directed by the Architects. Pointing shall not be done in freezing weather nor in locations exposed to hot sunshine unless properly protected.

Patching — The repairing of chipped or damaged cast stone shall be done only by mechanics skilled in this class of work, with materials furnished by this Manufacturer and according to his directions.

Note.
A condensed form of specification is being prepared and copies will be sent upon request.

THE Cast Stone Institute is an organization of cast stone manufacturers formed for the purpose of improving the quality of cast stone and disseminating information regarding its use. The activities of the Institute are designed to benefit both the industry and its patrons.

The Institute solicits the cooperation of architects and users of cast stone. It invites requests for information and assistance in matters involving cast stone.